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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/771,876	02/04/2004	Koichi Wada	02008.144001	3742	
75	90 07/14/2006		EXAM	EXAMINER	
ROSENTHAL Suite 2800	& OSHA L.L.P.	KIM, P.	KIM, PAUL D		
1221 McKinney	/ Street	ART UNIT	PAPER NUMBER		
Houston, TX 77010			3729		
			DATE MAILED: 07/14/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicati	on No.	Applicant(s)				
Office Action Summary		10/771,8	76	WADA ET AL.				
		Examine	r	Art Unit				
		Paul D. K	im	3729				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHICHEV - Extensions of after SIX (6) - If NO period - Failure to repair any reply rec	ENED STATUTORY PERIOD F ER IS LONGER, FROM THE Not time may be available under the provision MONTHS from the mailing date of this com for reply is specified above, the maximum soly within the set or extended period for replaceived by the Office later than three months that term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF TI s of 37 CFR 1.136(a). In no ex munication. statutory period will apply and v y will, by statute, cause the app	HIS COMMUNICATIO rent, however, may a reply be tin rill expire SIX (6) MONTHS from Dication to become ABANDONE	N. mely filed the mailing date of this co ED (35 U.S.C. § 133).				
Status								
1)∏ Resr	ponsive to communication(s) fil	ed on .						
· ·		2b) ☐ This action is r	on-final.					
3)☐ Since	e this application is in condition	for allowance except	for formal matters, pre	osecution as to the	merits is			
close	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of	Claims							
4a) O 5) ☐ Clain 6) ☐ Clain 7) ☐ Clain	n(s) <u>1-8</u> is/are pending in the a of the above claim(s) is/a n(s) is/are allowed. n(s) is/are rejected. n(s) is/are objected to. n(s) <u>1-8</u> are subject to restriction	are withdrawn from co						
Application Pa	apers							
9)∏ The s	pecification is objected to by the	ne Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under	35 U.S.C. § 119							
a)	Certified copies of the priority	documents have been documents have been of the priority documental Bureau (PCT Rui	en received. en received in Applicat ents have been receive e 17.2(a)).	ion No ed in this National	Stage			
Attachment(s)								
2) Notice of Dr 3) Information	eferences Cited (PTO-892) aftsperson's Patent Drawing Review (I Disclosure Statement(s) (PTO-1449 or //Mail Date		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate)-152) i			

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DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Species A, drawn to Fig. 5A-9A.

Species B, drawn to Fig. 2A-4A.

If applicant elects Species A, then.

Species AA, drawn to Fig. 5A/8A.

Species AB, drawn to Fig. 5B.

Species AC, drawn to Fig. 8C.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include

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all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

2. The claims are deemed to correspond to the species listed above in the following manner:

Species A, drawn to Claims 1-7.

Species B, drawn to claim 8.

If applicant elects Species A, then.

Species AA, drawn to claims 4 and 5.

Species AB, drawn to claim 6.

Species AC, drawn to claim 7.

The following claim(s) are generic: Claim 1 is a generic claim for Species A.

3. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

<u>Species A</u> teaches a special technical feature of attaching a first surface of a second sacrificial substrate to a base substrate and joining a second contact to a signal transmission line.

<u>Species AA</u> teaches a special technical feature of forming a second one of the first contacts in order that a first end of the second one of the first contacts is fixed to the first surface of the first sacrificial substrate at a position facing the first

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one of the first contacts to the first penetration hole and a second end of the second one of the first contacts is bent in the direction toward the second surface of the first sacrificial substrate to be held freely within the first penetration hole follow by forming the first and second ones of the first contacts to be substantially symmetrical at two facing sides of the first penetration hole formed in a rectangular shape respectively.

<u>Species AB</u> teaches a special technical feature of the first contact formation step comprises a step of: forming a plurality of the first contacts at each of four sides of the first penetration hole formed in a rectangular shape.

<u>Species AC</u> teaches a special technical feature of forming a second penetration hole which is larger than an area of the first sacrificial substrate in which the first contact is placed.

Species B teaches a special technical feature of forming a penetration hole in a sacrificial substrate, and forming first one of contacts in order that a first end of a first one of the contacts is fixed to a first surface of the sacrificial substrate and a second end of a first one of the contacts is bent in a direction toward a second surface opposite to the first surface of the sacrificial substrate to be held freely within the penetration hole and forming second one of the contacts in order that a first end of the second one of the contacts is fixed to the first surface of the sacrificial substrate at a position facing the first one of the contacts to the penetration hole and a second end of the second one of the contacts is bent in the direction toward the second surface of the sacrificial substrate to be held freely within the penetration hole.

4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D. Kim whose telephone number is 571-272-4565.

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The examiner can normally be reached on Monday-Friday between 6:00 AM to 2:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Paul D Kim
Primary Examiner
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